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1 2		PART 5 Standards for Toxic Air Contaminants and Hazardous Air Pollutants			
3	REGU	LATION 5.01 General Provisions			
4 5		ollution Control District of Jefferson County cson County, Kentucky			
6	Relate	es To: KRS Chapter 77 Air Pollution Control			
7		ant To: KRS Chapter 77 Air Pollution Control			
8		sity And Function: KRS 77.180 authorizes the Air Pollution Control Board to adopt and			
9		ee all orders, rules, and regulations necessary or proper to accomplish the purposes of KRS			
10		er 77. This regulation establishes the general provisions for toxic air contaminants, the			
11		ement for environmental acceptability of toxic air contaminant emissions, and the requirement			
12		ew or modified processes or process equipment comply with all applicable emission standards			
13		upon commencing operationthe federal requirements for hazardous air pollutants.			
14	SECTI	ION 1 Definitions			
15		s used in this regulation that are not defined in this regulation shall have the meaning given to			
16		in Regulation 1.02 <i>Definitions</i> . As used in the Part 5 regulations, the following terms shall			
17		the meaning given to them in this section.			
18	1.1	"Benchmark ambient concentration" means the concentration of a toxic air contaminant that			
19	1.1	is used in determining environmental acceptability pursuant to Regulation 5.21			
20		Environmental Acceptability for Toxic Air Contaminants.			
21	1.1.1	The benchmark ambient concentration for a carcinogen (BAC _c) is the concentration,			
22	1.1.1	including an averaging time frame, of a toxic air contaminant that is representative of an			
23		additional lifetime cancer risk of one in one million $(1 \otimes 10^{-6})$. The benchmark ambient			
24		concentration for a carcinogen is established pursuant to Regulation 5.20 <i>Methodology</i>			
2 5		for Determining Benchmark Ambient Concentration for a Toxic Air Contaminant			
26		Section 3.			
20 27	1.1.2	The benchmark ambient concentration for the noncarcinogenic effects of a toxic air			
28	1.1.2	contaminant (BAC $_{NC}$) is the concentration, including an averaging time frame, of a toxic			
29		air contaminant that is likely to be without an appreciable risk of deleterious effects			
30		during a lifetime. The benchmark ambient concentration for the noncarcinogenic effects			
31		of a toxic air contaminant is established pursuant to Regulation 5.20 Section 4.			
32	1.2	"Category 1 TAC" means a toxic air contaminant listed in Regulation 5.23 Categories of			
33	1.2	Toxic Air Contaminants Section 1.			
34	1.3	"Category 21A TAC" means a toxic air contaminant listed in Regulation 5.23 Section 2.			
35	1.4	"Category 32 TAC" means a toxic air contaminant listed in Regulation 5.23 Section 2.			
36	1.5	"Category 43 TAC" means a toxic air contaminant listed in Regulation 5.23 Section 4.			
37	1.6	"De minimis emission" means any of the following:			
38	1.6.1	If the estimation of the emission of a TAC that may be contained in a mixture of			
39	1.0.1	chemicals is based upon the information contained on the Material Safety Data Sheet			

(MSDS) for that mixture, then the emission of the TAC is deemed to be de minimis if

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	the concentration of that TAC is less than either of the following:
1.6.1.1	For a TAC that is determined to be a carcinogen, 0.1%, or
1.6.1.2	For any other TAC, 1.0%,
1.6.2	The emissions from a process or process equipment or activity that is included on the
	Trivial Activity list that is part of the District's EPA-approved Title V Operating Permit
	Program, available on the Internet at "http://www.apcd.org/permit/t5/trivial.pdf",
1.6.3	The emissions from a process or process equipment or activity that is included on the
	Insignificant Activity list that is part of the District's EPA-approved Title V Operating
	Permit Program, available on the Internet at "http://www.apcd.org/permit/t5/
	insignificant.pdf", or
1.6.4	The emission of a TAC from a process or process equipment that is equal to or less than
	the amounts calculated by using the following method:
1.6.4.1	Determine the benchmark ambient concentrations pursuant to Regulation 5.20
	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air
	Contaminant Section 4 and, if the TAC is determined to be a carcinogen, Section 3,
1.6.4.2	Multiply the BAC _{NC} (in μ g/m ³) by:
1.6.4.2.1	0.54 (the 1-Hour Factor in Regulation 5.22 Procedures for Determining the
	Maximum Ambient Concentration of a Toxic Air Contaminant Section 2 Table 1)
	to derive the pound-per-hour de minimis value for the BAC _{NC} , and
1.6.4.2.2	By the applicable (based upon the averaging time period of the BAC _{NC}) Annual,
	24-Hour, or 8-Hour Factor in Regulation 5.22 Section 2 Table 1 to derive the
	applicable pound-per-averaging time period de minimis value for the BAC _{NC}
1.6.4.3	If the TAC is a carcinogen, multiply the BAC _C (in μg/m ³) by:
1.6.4.3.1	0.54 (the 1-Hour Factor in Regulation 5.22 Section 2 Table 1) to derive the
	pound-per-hour de minimis value for the BAC _c , and
1.6.4.3.2	480 (the Annual Factor in Regulation 5.22 Section 2 Table 1) to derive the annual
	pound-per-year de minimis value for the BAC _C .
1.6.4.4	If the TAC is not determined to be a carcinogen, then an emission of that TAC that
	is less than both the pound-per-hour de minimis value determined in section 1.6.4.2.1
	and the applicable pound-per-averaging time period de minimis value determined in
	section 1.6.4.2.2 is deemed to be a de minimis emission,
1.6.4.5	If the TAC is determined to be a carcinogen, then compare the pound-per-hour
	de minimis values derived in sections 1.6.4.2.1 and 1.6.4.3.1 to determine which
	value is smaller. An emission of that TAC that is less than both the smaller pound-
	per-hour de minimis value and the corresponding applicable averaging time period
	de minimis value determined in section 1.6.4.2.2 or 1.6.4.3.2 is deemed to be a de
	minimis emission, or
1.6.5	The emissions from a new or modified surface coating process, including a coating
	change, or process equipment, for which the construction permit application qualifies
	under any of the circumstances described in Regulation 5.21 section 1.5, and for which
	the potential volatile organic compound emissions are less than 5.0 tons per year.
	exempt stationary source" means any of the following:
1. <u>76</u> .1	A gasoline dispensing facility subject to the provisions of Regulation 6.40 Standards of

Performance for Gasoline Transfer to Motor Vehicles (Stage II Vapor Recovery and

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Control), that may also include a cold cleaner subject to the provisions of Regulation 6.18 Standards of Performance for Solvent Metal Cleaning Equipment Section 4 Cold Cleaners. A gasoline dispensing facility does not include the initial transfer of gasoline into the fuel tanks of new motor vehicles at an automobile or truck assembly plant,

- 1.<u>76</u>.2 A stationary source subject to the provisions of Regulation 6.44 Standards of Performance For Existing Commercial Motor Vehicle And Mobile Equipment Refinishing Operations or Regulation 7.79 Standards of Performance For New Commercial Motor Vehicle And Mobile Equipment Refinishing Operations,
- 1.<u>76</u>.3 A stationary source subject to the provisions of Regulation 5.02 Adoption of National Emission Standards for Hazardous Air Pollutants section 3.12 National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities, or
- 1.<u>76.</u>4 A stationary source whose only permitted process or process equipment is a cold cleaner subject to the provisions of Regulation 6.18 Section 4.
- 1.<u>87</u> "Group 1 stationary source" means a stationary source subject to Regulation 2.16 *Title V Operating Permits*.
- 1.<u>98</u> "Group 2 stationary source" means a stationary source that either:
- 1.98.1 <u>Is not a Group 1 or Exempt stationary source, and has applied for an operating permit pursuant to Regulation 2.17 Federally Enforceable District Origin Operating Permits (FEDOOP stationary source), or</u>
- 1.<u>98.</u>2 Is not a Group 1, FEDOOP, or Exempt stationary source, and the actual emissions from the stationary source are 25 or more tons per year individually of sulfur dioxide, particulate matter, volatile organic compounds, or oxides of nitrogen.
- 1.9 "New or modified" process or process equipment means, for a process or process equipment, one of the following:
- 1.9.1 The construction permit is issued on or after [insert the effective date of Version 4 of this regulation] and the process involves the potential emission of a Category 1 or 1A TAC.
- 1.9.2 An administratively complete application for a construction permit is received by the District on or after [insert the effective date of Version 4 of this regulation] and the process involves the potential emission of a Category 2 or 3 TAC but does not involve the potential emission of a Category 1 or 1A TAC, excluding a process or process equipment for which the construction permit application was received by the District before June 30, 2004.

SECTION 2 Applicability

- This regulation applies to the owner or operator of any process or process equipment that emits or
- may emit a toxic air contaminant or hazardous air pollutant or for which a toxic air contaminant or
- hazardous air pollutant emission standard or other requirement is prescribed in a Part 5 regulation.
- 123 A new or modified process or process equipment shall comply with all applicable emission standards
- 124 upon commencing operation.

SECTION 3 General Duty

The owner or operator of a process or process equipment from which a toxic air contaminant is or

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may be emitted shall provide the utmost care and consideration to prevent the potential harmful effects of the emissions resulting from the process or process equipment. A person shall not allow any process or process equipment to emit a toxic air contaminant in a quantity or duration as to that could be harmful to the health and welfare of humans, animals, and plants.

SECTION	N 4 New or Modified Process or Process Equipment that May Emit a Toxic Ai
	Contaminant [Note: This is being moved to Regulation 5.21 Section 3]
4.1	A construction permit required by the provisions of the Part 2 regulations for a new of
<u>1</u>	nodified process or process equipment that may emit a toxic air contaminant shall, excep
2	as exempted pursuant to section 4.2, incorporate the following provisions:
4.1.1	The allowed emission standard for a Category 1 or 1A TAC from a Group 1 or
	stationary source shall have been demonstrated to comply with the environmenta
	acceptability goals of Regulation 5.21 section 2.2 except as provided in Regulation 5.2
	section 2.3,
4.1.2	The allowed emission standard for a Category 2 or 3 TAC from a Group 1 or 2 stationar
	source shall meet one of the following:
4.1.2.1	Has been demonstrated to comply with the environmental acceptability goals of
	Regulation 5.21 section 2.2 except as provided in Regulation 5.21 section 2.3, or
4.1.2.2	Has been demonstrated to comply with the provisions of Section 3 of this regulation
	and
4.1.3	As determined appropriate by the District, the construction permit shall require the owner
	or operator of the new or modified process or process equipment to install, calibrate
	operate, and maintain a continuous or intermittent emissions or parametric monitorin
	system. Applicable records shall be maintained for a period of at least 5 years, made
	available to the District upon request, and submitted to the District as specified in the
	construction permit.
4.2 	Unless specifically adopted in these regulations, the provisions of sections 4.1.1 and 4.1.
5	shall not apply to the following:
4.2.1	A new or modified process or process equipment regulated pursuant to Regulation 6.4
	Standards of Performance for Gasoline Transfer to Motor Vehicles (Stage II Vapo
	Recovery and Control) at a gasoline dispensing facility (which does not include the initial
	transfer of gasoline into the fuel tanks of new motor vehicles at an automobile or truc
	assembly plant),
4.2.2	A new or modified process or process equipment regulated pursuant to Regulation 6.4
	Standards of Performance For Existing Commercial Motor Vehicle And Mobile
	Equipment Refinishing Operations or Regulation 7.79 Standards of Performance Fo
	New Commercial Motor Vehicle And Mobile Equipment Refinishing Operations,
4.2.3	A new or modified process or process equipment regulated pursuant to Regulation 5.0
	Adoption of National Emission Standards for Hazardous Air Pollutants section 3.1
	National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities,
4.2.4	A new or modified surface coating process, including a coating change, or process
	equipment for which the potential volatile organic compound emissions are less than 5.
	tons ner vear and

new or modified cold cleaner subject to the provisions of Regulation 6.18 Standards

[If adopted, this would amend the April 20, 1988, version of Regulation 5.01] [Changes to Draft #1 are redlined and double underlined] of Performance for Solvent Metal Cleaning Equipment Section 4 Cold Cleaners at a 170 171 stationary source meeting one of the following: 172 The only permitted process or process equipment at the stationary source is a cold 173 cleaner, 174 The cold cleaner is located at a gasoline dispensing facility identified in section 4 175 176 The cold cleaner is located at a stationary source identified in section 4.2.2. 177 **SECTION 5** Savings Clause Any emission standard established pursuant to Regulation 5.11 Standards of Performance for 178 Existing Sources Emitting Toxic Air Pollutants or Regulation 5.12 Standards of Performance for 179 180 New or Modified Sources Emitting Toxic Air Pollutants as of [insert the effective date of Version] 181 4 of this regulation] shall remain in effect until replaced with an emission standard established 182 pursuant to Regulation 5.21.

Adopted v1/7-14-76; effective 9-1-76; amended v2/6-13-79, v3/4-20-88.

[Changes from Draft #1 to the current regulation are already incorporated]

January 10, 2005

Version #4, Draft #2 - External

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